How to change fuel filter on **BMW E90 diesel** – replacement guide

VIDEO TUTORIAL

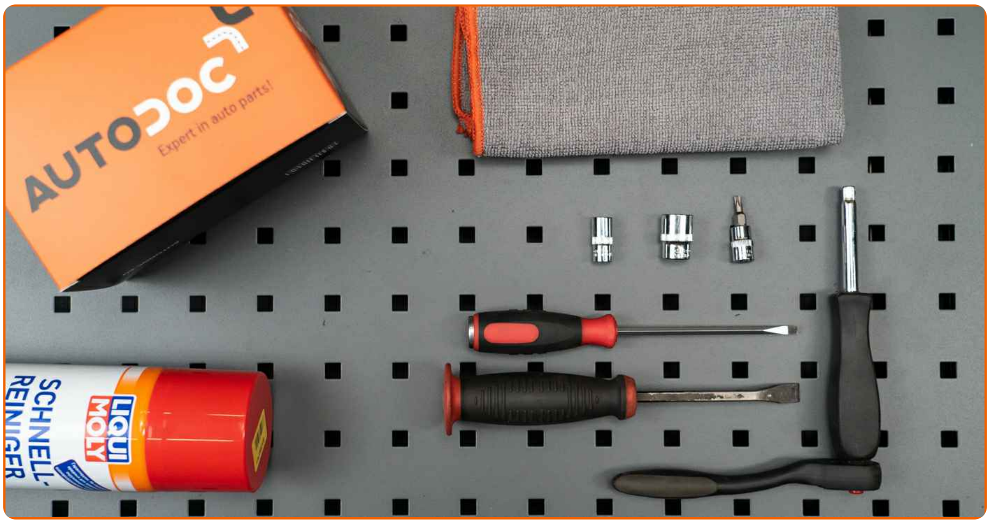


Important!

This replacement procedure can be used for:
BMW 3 Touring (E91) 318d 2.0, BMW 6 Coupe (F13) 640d xDrive 3.0, BMW 3 Saloon (E90) 318d 2.0, BMW 6 Convertible (F12) 640d xDrive 3.0, BMW X3 (E83) xDrive 20 d, BMW X3 (E83) xDrive 30 d, BMW 7 (E65, E66, E67) 730d 3.0, BMW 5 GT (F07) 530d 3.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW 6 Convertible (F12) 640d 3.0, BMW 3 Convertible (E93) 325d 3.0, BMW 6 Coupe (F13) 640d 3.0, BMW 3 Saloon (E90) 320d 2.0, (+ 23)

The steps may slightly vary depending on the car design.

REPLACEMENT: FUEL FILTER – BMW E90. TOOLS YOU NEED:



- All-purpose cleaning spray
- Drive socket # 8
- Drive socket # 13
- Torx bit T20
- Fluid container
- Flat screwdriver
- Crow bar
- Ratchet wrench
- Wheel chock

BUY TOOLS

Replacement: fuel filter – BMW E90. Tip:

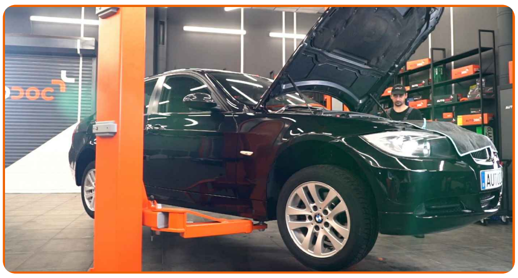
- Ensure adequate ventilation of the workplace. Fuel vapors are poisonous.
- All work should be done with the engine stopped.

REPLACEMENT: FUEL FILTER – BMW E90. RECOMMENDED SEQUENCE OF STEPS:

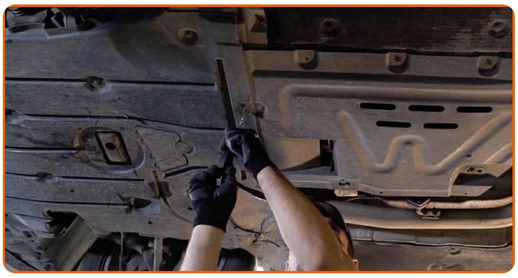
1 Open the fuel door.

2 Unscrew the fuel filler cap.

3 Lift the car using a jack or place it over an inspection pit.



4 Unscrew fixing bolts of the protective cover. Use a drive socket #8. Use a ratchet wrench.



5 Remove the protective cover.



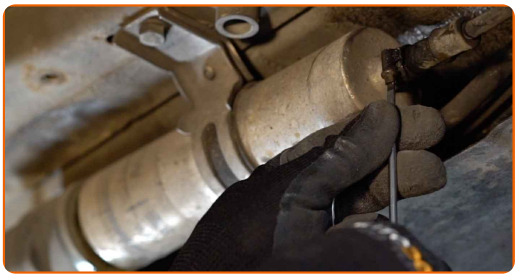
6 Prepare a container for fluids.



7 Treat the fasteners attaching the tubes to the fuel filter. Use all-purpose cleaning spray.



8 Loosen the fuel filter clamps. Use a flat screwdriver.



9 Remove the snap ring of the fuel pressure regulator retainer clip.



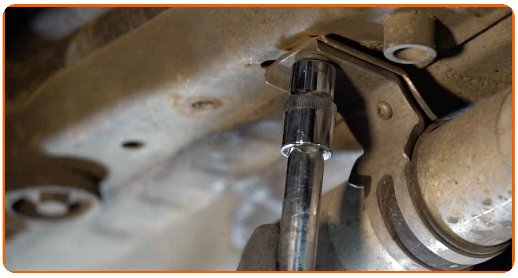
10 Detach the fuel pressure regulator from the fuel filter. Use a crowbar.



Replacement: fuel filter – BMW E90. AUTODOC experts recommend:

- Be careful! Fuel may leak from the filter housing and hoses.

11 Loosen the fuel filter mounting. Use a drive socket #13. Use a ratchet wrench.



12 Disconnect the fuel supply lines from the fuel filter.



13 Unscrew the fastener of the fuel filter bracket. Use Torx T20. Use a ratchet wrench.



14 Remove the fuel filter. Put the old filter cartridge in the container.



15 Install a new fuel filter.

Replacement: fuel filter – BMW E90. AUTODOC recommends:

- Remember, it is important not to mix up the input and output of the filter. Arrows on the filter indicate the direction of fuel flow.
- During installation, take care to prevent dust and dirt from getting into the fuel filter housing.
- Attention! Use quality filters – BMW E90.

16 Connect the fuel supply lines to the fuel filter.



17 Tighten the fuel supply line fastening. Use a flat screwdriver.



18 Install the bracket on the fuel filter.



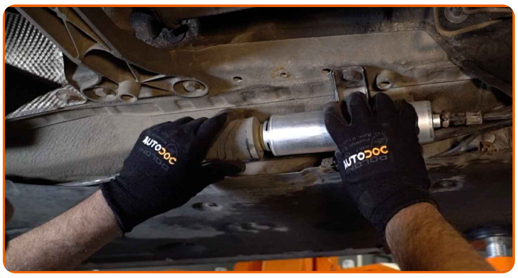
19 Tighten the fastener of the fuel filter bracket. Use Torx T20. Use a ratchet wrench.



20 Tighten the fuel filter fasteners. Use a drive socket #13. Use a ratchet wrench.



21 Attach the fuel pressure regulator to the fuel filter. Install the snap ring of the fuel pressure regulator's retainer clip.



22 Take the fluid container away from under the fuel filter.



23 Install the protective cover.



24 Tighten fixing bolts of the protective cover. Use a drive socket #8. Use a ratchet wrench.



25 Lower the car.



26 Tighten the fuel filler cap.

27 Close the fuel door.

Replacement: fuel filter – BMW E90. AUTODOC experts recommend:

- Before starting off, switch the ignition on and off several times. This should be done to activate the fuel pump to make it pump fuel through the fuel system.

28 Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.



29 Shut off the engine.



Replacement: fuel filter – BMW E90. Tip:

- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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